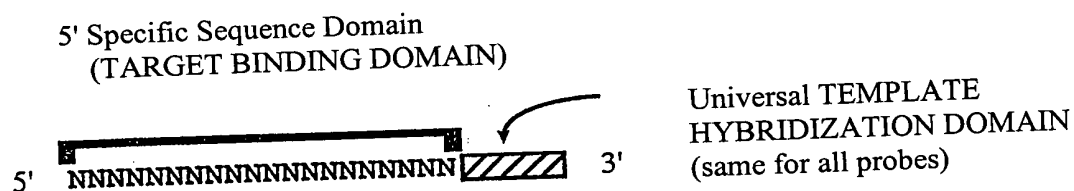


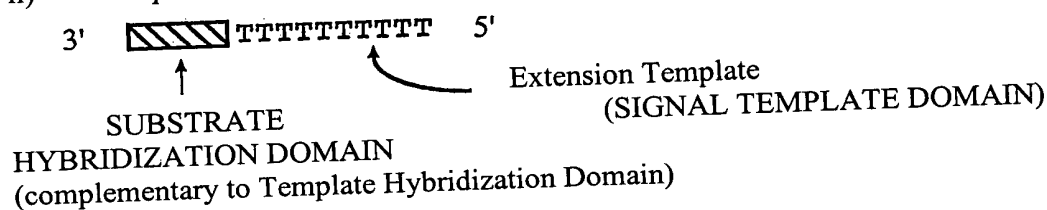
APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY	DRAFTSMAN	

A) Design and Synthesis of Nucleic Acids (oligonucleotides):

i) *Substrate Nucleic Acid*



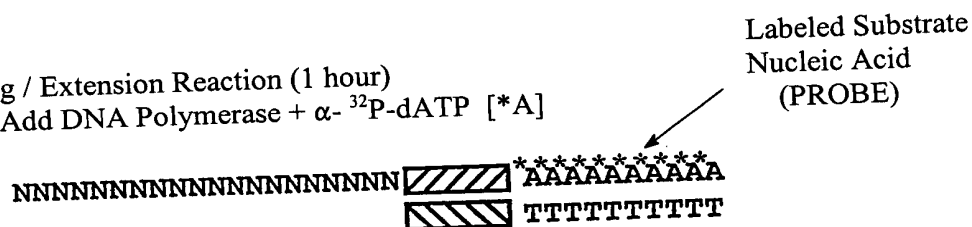
ii) *Template Nucleic Acid*



B) Anneal Substrate + Template Nucleic Acids in Buffer (10 minutes)



C) Labeling / Extension Reaction (1 hour)
Add DNA Polymerase + α - 32 P-dATP [*A]



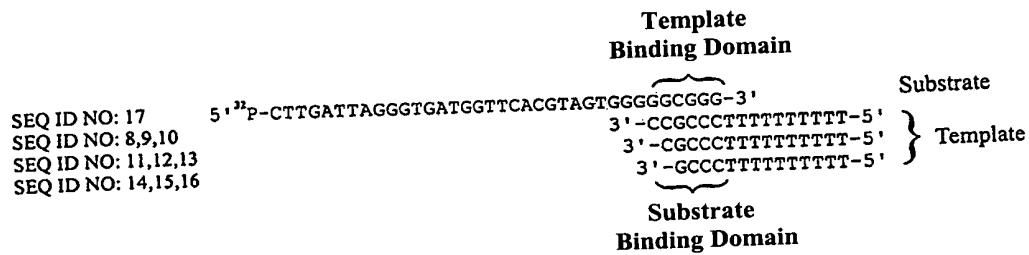
D) Remove Unincorporated Label using Column Chromatography (10 minutes)
Optional: Remove Template and more highly purify Probe using PAGE (2 hour gel + elute)



FIG. 1

APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY		
DRAFTSMAN		

A) Substrate and Template Nucleic Acids



B) PAGE analysis of reaction products

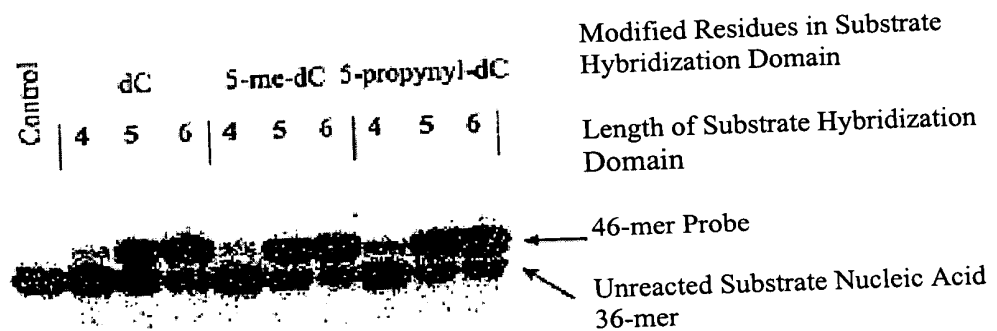


FIG. 2

APPROVED	C.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

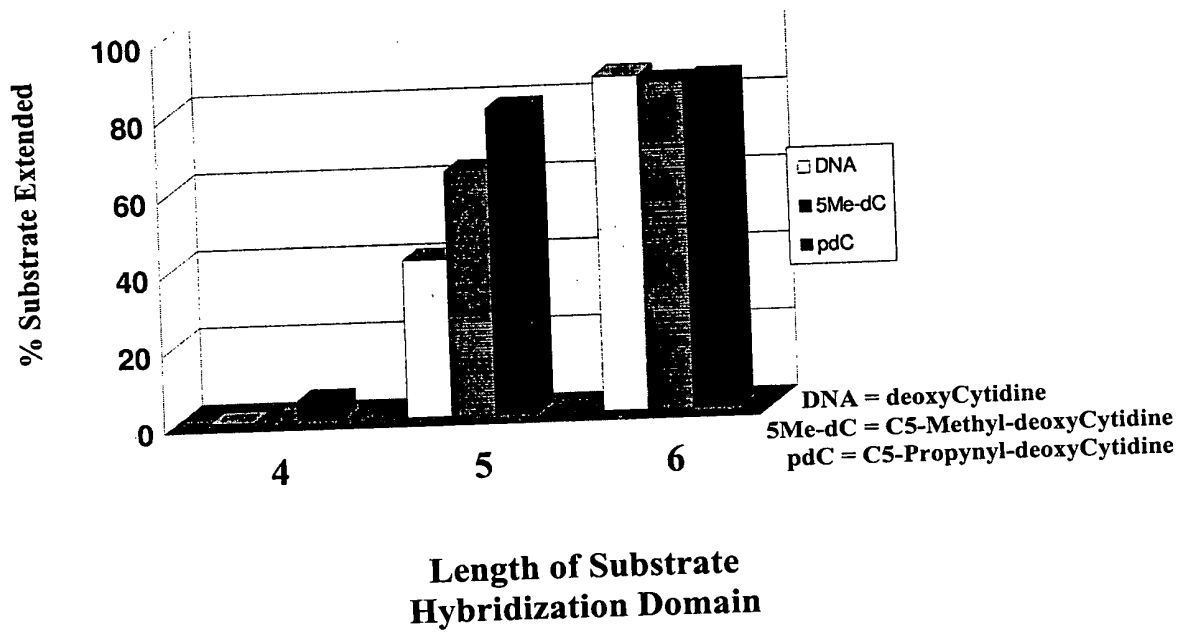


FIG. 3

7614-018

(SHEET 4 OF 9)

APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY		
DRAFTSMAN		

pGreen Lantern™-1 Probes

Kinase Labeled Probe

5' ³²P-CTTGATTAGGGTGATGGTTCACGTAGTGGGGGCGGG-3'

High Specific Activity Tailed Probe

5'-CTTGATTAGGGTGATGGTTCACGTAGTGGGGGCGGG*A*A*A*A*A*A*A*A*A*A-3'

↑
* = ³²P (10 total)

FIG. 4A

7614-018

(SHEET 5 OF 9)

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Dot Blot

Mass of target plasmid on Membrane

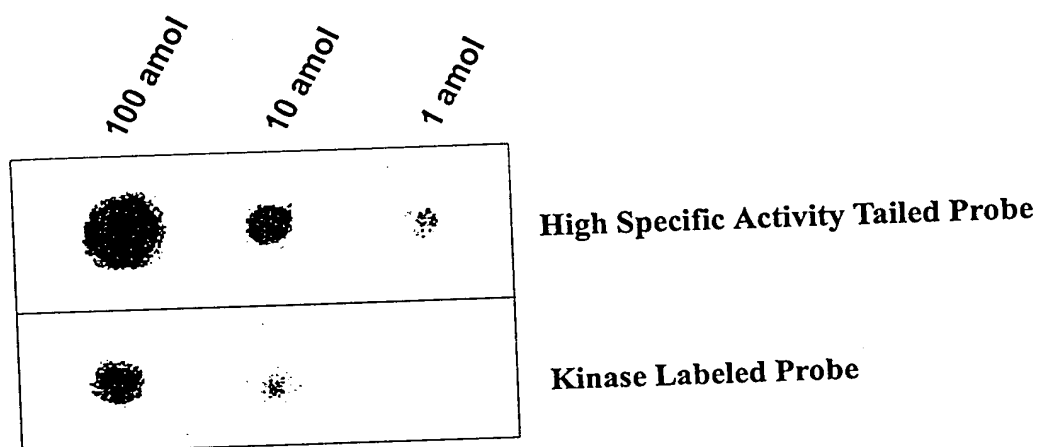


FIG. 4B

7614-018

(SHEET 6 OF 9)

APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

β -Actin Probes

Kinase Labeled Probe

5' ³²P-GCCCAGGAAGGAAGGCTGGAAGAGTGCCTCGGCGGG-3'

High Specific Activity Tailed Probe

5'-GCCCAGGAAGGAAGGCTGGAAGAGTGCCTCGGCGGG*A*A*A*A*A*A*A*A*A*A-3'

↑
* = ³²P (10 total)

FIG. 5A

APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY	DRAFTSMAN	

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(SHEET 7 OF 9)

Northern Blot of Human Placental RNA

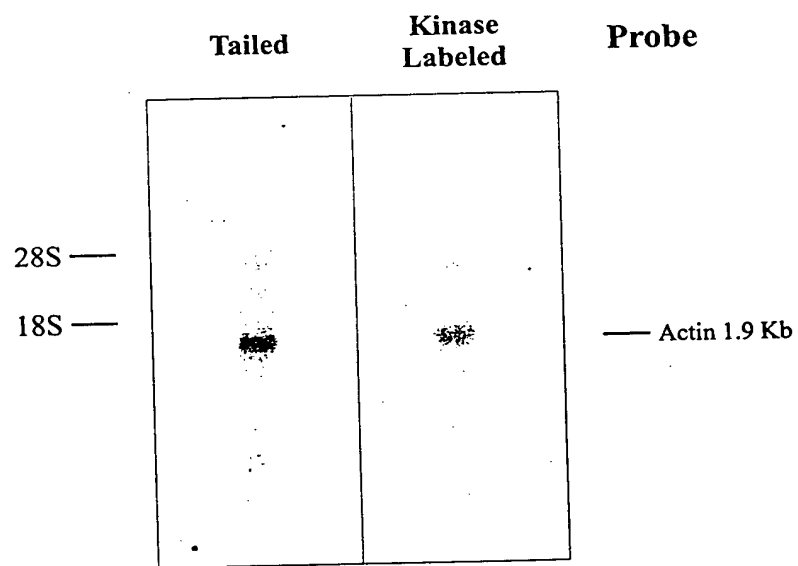


FIG. 5B

7614-018

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APPROVED	O.G. FIG.	CLASS	SUBCLASS
BY			
DRAFTSMAN			

Substrate Nucleic Acids and Reaction Products

SEQ ID NO: 21 DNA Substrate Nucleic Acid

5' ³²P-GCCCAGGAAGGAAGGCTGGAAGAGTGCCTCGGCGGG-3'

SEQ ID NO: 22 DNA Reaction Product

5' ³²P-GCCCAGGAAGGAAGGCTGGAAGAGTGCCTCGGCGGGAAAAAAAAA-3'

SEQ ID NO: 24 RNA Substrate Nucleic Acid

5' ³²P-cugggcauggaguccuguggcauccacgaaacuaccuucaggcggg-3'

SEQ ID NO: 25 RNA Reaction Product

5' ³²P-cugggcauggaguccuguggcauccacgaaacuaccuucaggcgggAAAAAAAAA-3'

FIG. 6A

APPROVED	O.G. FIG.	CLASS	SUBCLASS
CV			
DRAFTSMAN			

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(SHEET 9 OF 9)

PAGE analysis of Reaction Products

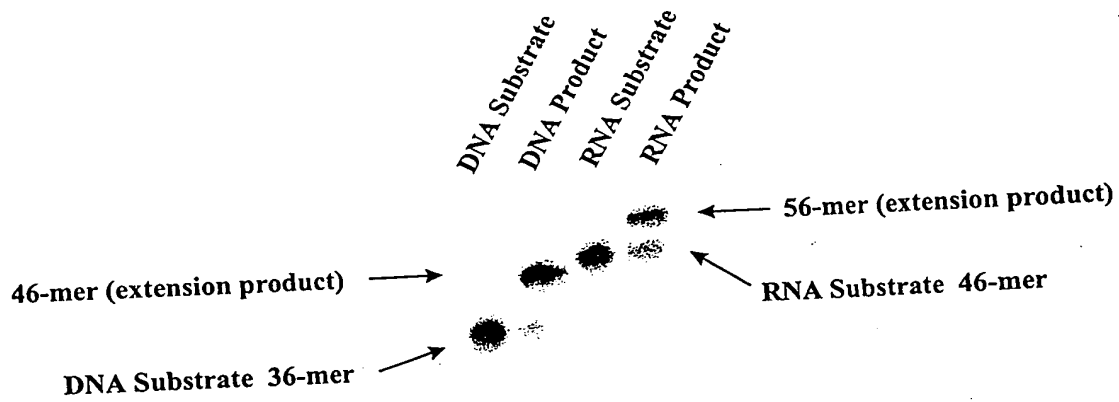


FIG. 6B